Award Completion Statement

	<u> </u>		
FROM: (Award Administration Office) Office of Naval Research, Chicago Regional Office		2a. AWARD NUMBER N00014-95-1-1302	
536 South Clark Street Room 208		2b. LAST ADMINISTRATION MOD	DIFICATION NUMBER
Chicago, IL 60605-1509		A00004 2c. LAST AWARDING AGENCY N	IODIFICATION NUMBER
	(312) 353-2094	P00007	IODIFICATION NUMBER
3. TO: (Name and Address of Awarding Agency or Payme	ent office, as applicable)	4. NAME OF AWARDEE	
OFFICE OF NAVAL RESEARCH		Purdue Research Foundation	
ATTN: ONR CODE 251, Elizabeth Ford		WEST LAFAYETTE, IN	
800 NORTH QUINCY STREET ARLINGTON, VA 22217-5660		5. EXCESS FUNDS (ULO)	
, , , , , , , , , , , , , , , , , , ,		\$0.00	•
6a. IF FINAL PAYMENT HAS BEEN MADE, COMPLETE ITEMS 6b., AND 6c.	6b. VOUCHER NUMBER		Sc. DATE
7a. IF FINAL APPROVED INVOICE FORWARDED TO D.O. OF ANOTHER ACITIVITY AND STATUS OF PAYMENT IS UNKNOWN, COMPLETE ITEMS 7b, AND 7c.	7b. INVOICE NUMBER		7c. DATE FORWARDED
8. REMARKS CA	AMIS	STARS	
Total amount obligated: \$10,449,5	\$10,	449,588.81	
Total amount approved / disbursed: \$10,449,5	· '	449,588.81	
Excess funds to deobligate (ULO):	\$0.00	\$0.00	
9a. ALL ADMINISTRATION OFFICE ACTIONS REQUIRED H THE CASE OF A PRICE REVISION CONTRACT	IAVE BEEN SATISFACTORIL	Y COMPLETED, THIS INCLUDES	FINAL SETTLEMENT IN
9b. TYPED NAME OF RESPONSIBLE OFFICIAL	9c. SIGNATURE	/ .	9d. DATE
JOHN CHIAPPE Administrative Grant Officer	(b) (6)		10-Apr-2002
FC	R PURCHASING OFFICE US		
10a. ALL PURCHASING OFFICE ACTIONS REQUIRED HAV IS HEREBY CLOSED AS OF:	É BEEN FULLY AND SATISF	ACTORILY ACCOMPLISHED. AW	ARD FILE OF THIS OFFICE
DATE SHOWN IN ITEM 9d ABOVE			
DATE SHOWN IN ITEM 10e BELOW. (Check this	box only if final completion of any sig	mificant purchasing office action extends m	ore than three months
beyond close-out date shown in item 9d. above. In such cases, submit a co	py of the completed form upon final a		
(Upon receipt, the award administration office shall extend its contract file o	iose-out date accordingly.))		
10b. REMARKS			
10c, TYPED NAME OF RESPONSIBLE OFFICIAL	10d. SIGNATURE	**************************************	100 DATE
100, 117ED NAME OF RESPONSIBLE OFFICIAL	IVU. SIGNATURE		10e. DATE



AWARD/ **MODIFICATION**

3a. ISSUED BY: OFFICE OF NAVAL RESEARCH REGIONAL OFFICE CHICAGO

536 S CLARK STREET ROOM 208 CHICAGO IL 60605-1588

. INSTRUMENT TYPE:	3b. CFDA:
Grant	12.300
2.AUTHORITY: 10 USC 2358, 31 USC 6304	3c. DUNS NUMBER:

Same as block #13

6. MODIFICATION TYPE: 7. PR NO.: PAGE 4. AWARD NO.: 5. MODIFICATION NO.: 02PR07507-00 1 of 5 A00004 Administrative N00014-95-1-1302 10, PROPOSAL DATE: 11. ACTIVITY TYPE: 12. PROGRAM TYPE: 9. RECIPIENT PROPOSAL NO.: 8. ACTIVITY/AGENCY PROPOSAL NO.:

N/A N/A Research N/A 13c. EDI/EFT NUMBER: 14. REMITTANCE ADDRESS (IF DIFFERENT FROM BLOCK 13): 13. ISSUED TO 13b, CAGE:

PURDUE RESEARCH FOUNDATION DIVISION OF SPONSORED PROGRAMS HOVDE HALL THIRD FLOOR WEST LAFAYETTE, IN 47907

4B877

13d. BUSINESS OFFICE CONTACT:

13a, ADDRESS:

13e. TELEPHONE NUMBER: 13f. EMAIL ADDRESS:

15. RESEARCH TITLE AND/OR DESCRIPTION OF PROJECT AND/OR PROPOSAL TITLE:

4301AO

Manufacturable Power Switching Devices

ACTIVITY/AGENCY SHARE	RECIPIENT SHARE	TOTAL	17. CURRENT FUNDING PERIOD
\$10,450,000.00	\$.00	\$10,450,000.00	11.11.00.011
-\$411.19	\$.00	-\$411.19	N/A
\$10,449,588.81	\$.00	\$10,449,588.81	18. PERIOD OF PERFORMANCE 29-SEP-1995
\$.00	\$.00	\$.00	1
\$10,449,588.81	\$.00	\$10,449,588.81	
	\$10,450,000.00 -\$411.19 \$10,449,588.81 \$.00	\$10,450,000.00 \$.00 -\$411.19 \$.00 \$10,449,588.81 \$.00 \$.00 \$.00	\$10,450,000.00 \$.00 \$10,450,000.00 -\$411.19 \$.00 -\$411.19 \$10,449,588.81 \$.00 \$10,449,588.81 \$.00 \$.00 \$.00

19. ACCOUNTING AND APPROPRIATION DATA:

See attached Financial Accounting Data Sheet(s)

20a. PRINCIPAL INVESTIGATOR/RECIPIENT TECHNICAL REPRESENTATIVE:		21. TECHNICAL REPRESENTATIVE 21a. NAME: John C. Zolper	21b. CODE: ONR 312					
(PI) James A. Cooper	•	21c. ADDRESS: OFFICE OF NAVAL RESEARCH BALLSTON CENTRE TOWER ONE 800 NORTH QUINCY STREET ARLINGTON VA 22217-5660						
20b. TELEPHONE NUMBER: 20c. EMAIL ADDRES (765) 4943514 cooperj@ecm.purdue.ed	- .	21d. TELEPHONE NUMBER: (703) 6961437	21e. EMAIL ADDRESS: zolperj@onr.navy.mil					
22. AWARDING OFFICE CONTACT 22a. NAME: Yolanda Williams	2b. CODE: ONR 245	23a. ADMINISTRATIVE OFFICE: 23b. CODE: N62880						
22c.ADDRESS: OFFICE OF NAVAL RESEARCH REGION CHICAGO 536 S CLARK STREET ROOM 208 CHICAGO IL 60605-1588	VAL OFFICE	OFFICE OF NAVAL RESEARCH REGIONAL OFFICE CHICAGO 536 S CLARK STREET ROOM 208 CHICAGO IL 60605-1588 Fax: (312) 3532094						

25b. CODE:

22d. TELEPHONE NUMBER: 22e, EMAIL ADDRESS:

(312) 8865423 williay@onr.navy.mil

24. SUBMIT PAYMENT REQUEST TO: 25a, PAYING OFFICE:

N00014 N68892 OFFICE OF NAVAL RESEARCH

26a. PATENT OFFICE:

26b. CODE:

Same as block #23a DFAS CHARLESTON, SC ATTN: ONR 00CC BALLSTON CENTRE TOWER ONE 800 NORTH QUINCY STREET ARLINGTON VA 22217-5660

				MODIFICATION NO.	I P	AGE
AWARD NO. N00014-95-1-1302	AWARD/M	ODIF	CATION	A00004	- 1	of 5
27. SPECIAL INSTRUCTIONS:						
See "Special Requirements" A	tachment					
28. DELEGATIONS: The administration duties list	ad holow have been deletral	ted in the ac	Iministrative office (t	plock 23a). Upon request the	awarding offi	ce contact (block 22)
28, DELEGATIONS: The administration duties is a will make their full text available. Please direct que	stions to the contacts @:	nttp://	www.onr.navy	.mi1/02/024/offi	ces.htm	
Full Delegation						ļ
29. TERMS AND CONDITIONS: The following ter Upon request the awarding office contact named in	ms and conditions are incor	porated her	ein by reference with	n the same force and effect a found at the specified URL.	is if they were	given in full text.
Upon request the awarding office contact named in DOCUMENT	URL	iii text availa	ible, of they can be t	dulid at the apcoince Ortz.		CLAUSES
30. OPTIONS OPTION NO. AMOUNT (1) (2) (3) (4) 31. REPORTS: The following reports must be suf-	omitted to the indicated addi	ressees. in l	the indicated quantit	PERIOD les, within 90 days following	the expiration	or termination of
the project. Final Technical Reports must be set Block 12a of the SF298 as follows: "Approved for	SF298, Report Documentat Public Release; distribution	ion Page, a is Unlimite	ccompanying them.	Unless otherwise stated in the	te award/mod	sincation, complete
ADDRESSEE	REPORT					COPIES
See block #21 (Frequency)	Final Perfor SF298	Technic mance/	cal Report w Technical Re	/ SF298 port (As Require	d) w/	1
Georgia #22n	Report	of In	ventions and	l Subcontracts -	DD 882	1
See block #23a	Final	Techni	cal Report -	· Transmittal let	ter only	
	Perfor	mance/	Technical Re	port (As Require Report - SF269A -	:d) . ⊤ =	1
		rinanc es use		tepoit - Brzosk -		1
See block #26a	Report	of In	ventions and	Subcontracts -	DD 882	1
DEFENSE TECHNICAL INFORMATIO 8725 JOHN J KINGMAN ROAD STE FORT BELVOIR VA 22060-6218	0944 Perfor	Techni rmance/	cal Report w Technical Re	n/ SF298 eport (As Require	:d) w/	1
			1	-/ anaca		1
NAVAL RESEARCH LABORATORY ATTN: CODE 5227 4555 OVERLOOK AVENUE SW WASHINGTON DC 20375-5320	Final Perfo SF298	rmance/	cal Report v Technical Re	W/ SF298 aport (As Require	ed) w/	1
32. FOR THE RECIPIENT		Jana 1944 I	33. FOR THE UNIT	ED STATES OF AMERICA		
32a. SIGNATURE OF PERSON AUTHORIZED			33a. SIGNATURE C	F AWARDING OFFICER		
N/A - SIGNATURE NOT REQUI		(D		(b) (6)	ĺ,	
32b. NAME AND TITLE OF SIGNER	32c. DATE	SIGNED	33b NAME AND TO	TLE OF AWARD OFFICER	•	33c. DATE SIGNED 29-JAN-2002
The second of the property of the contract of						

	OFF CORT	2112	2. SPIIN (CRIT		4/ (14)	3. MOD	CRITICA	COOIA		4. PR NUMB	ER				PAGE 3 OF 5
	NUMBER (CRITIC		Z. OPINY (URIT	IUALJ	İ		A00004 02PR07507-00								
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CLIN/SLIN	6. LINE OF AC	B.	C.	D.	E.	F.	G.	Н.	I.	J.	K.	ST CODE		AMOUNT	NAVY INTERNAL USE ONLY
	ACRN (CRITICAL)	APPROPRIATION (CRITICAL)	SUBHEAD (CRITICAL)	OBJ CLA	PARM	RFM	SA	AAA (CRITICAL)	ΙT	PAA	PROJ UNIT	MCC	PDLI & SUF	(CRITICAL)	REF DOC/ACRN
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				1								P	AGE TOTAL	-\$411.19	
						Cour	TOOLS	R APPROVAL:				GR	AND TOTAL	-\$411.19	
PREPARED	AUTORIZED BY:					DATE	FOR FIS	R APPROVAL. SCAL DATA AND	SIGNAT	URE				for COMPTROLLE	ER, ONR CONTRACT REVIEWED

FINANCIAL ACCOUNTING DATA SHEET - NON-NAVY DoD ACTIVITIES

001/70407388	MBER (CRITICAL)	2. SPIIN (CRITICAL)							
CONTRACT NO 00014-95-1	1-1302		A00004	02PR07507-00			NAVY INTERNAL		
6. I/SLIN ACF (CRITI	7.		ACCOUNTING CITATION	8. AMOU (CRITIC	NT CAL)	USE ONLY REF DOC/ACRN			
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					DAGE TOTAL				
					PAGE TOTAL	\$.00 \$.00			
REPARED/AUTHO	ORIZED BY:			GI COMPTROLLER APPROVAL: FOR FISCAL DATA AND SIGNA BY DATE:	RAND TOTAL	COMPTROLLER, ONR CO	NTRACT REVIEWED		

	DECLUDEMENTS	MODIFICATION NO.	PAGE
AWARD NO.	SPECIAL REQUIREMENTS	A00004	5 of 5
N00014-95-1-1302			
The purpose of this modificat under this award.	ion is to deobligate \$411.19. No f	urther funding will be provi	ded
			,
			i.
			ļ

GRANT MODIFICATION

Granting Agency:

Grant Information:

Department of the Navy Office of Naval Research Chicago Regional Office Federal Building, Room 208

Attn: Betty L. Brown Chicago, IL 60605-1509 Grant No: N00014-95-1-1302 Modification: A00003 ACO Code: N62880 S.O. Code: 342 Cage Code: 4B877

Disbursing Code: N68892 P.I.: James Cooper

Grant Recipient:

PURDUE RESEARCH FOUNDATION

Division of Sponsored Programs

Hovde Hill Third floor West Lafayette, IN 47907

Funding Amount: Appropriation Data: Increase/Decrease: \$ -0-

N/A

Authority:

U.S.C. 2358, as amended; 31 U.S.C. 6304

Modification Purpose: The purpose of this modification is to extend the period of performance of Grant N00014-95-1-1302 at no additional cost to the Government.

PERIOD of the Grant Schedule is hereby revised as follows:

"PERIOD: The research work under this grant shall be conducted through 31 DEC 00. A final report will be prepared, submitted, reproduced and distributed by sixty (60) days thereafter, unless the grant is extended, in which case, the final report will be prepared in accordance with the terms of such extension."

All terms and conditions remain unchanged.

For The Office of Naval Research



Effective Date: 09 Aug 2000

Agreement No: N00014-95-1-1302

Modification A00003

Page 1 of 1



AWARD/

3a. ISSUED BY:
OFFICE OF NAVAL RESEARCH

	F			MODIF		TI	ON	800	NORT	TH QUINCY ON VA 22	STREET	
	-	CH		1. INSTRUMENT TYPE Grant				3b. CF	DA: .300			
	RESEA			2. AUTHORITY:				3c. DU	NS NUM			
4. AWARD NO.:	·			10 USC 2358, 5. MODIFICATION NO.:			ON TYPE:	7. PR N	8963 10.:	233	ΙP	AGE
N00014-95-1				P00007	Adı	Administrative		00	PR03	080-01	1	of 5
 8. ACTIVITY/AGENC N/A 	Y PROPOS	SAL NO.:		9. RECIPIENT PROPOS	SAL NO.:	10. PR N/A	OPOSAL DAT	TE:		ivity type: earch	12. PROGRAM N/A	ATYPE:
13. ISSUED TO 13a. ADDRESS:	13b. CAG 4B877	E: 1	3c. EDI/ 4301 <i>F</i>	EFT NUMBER:	3				ERENT	FROM BLOCK	13):	
PURDUE RESE DIVISION OF HOVDE HALL WEST LAFAYE	ARCH F SPONS THIRD	ORED F	'ION ROGRA		Sau	ic ds	block #1	LS				
13d. BUSINESS OFF	ICE CONT	ACT:	·		_							
13e. TELEPHONE N	UMBER:	13f. EMA	IL ADDR	ESS:	-							
15. RESEARCH TITL Manufactura				F PROJECT AND/OR PR ng Devices	ROPOSAL TI	ITLE:					· · · · · · · · · · · · · · · · · · ·	
16. FUNDING		ACT	IVITY/AC	GENCY SHARE RE	CIPIENT SI	HARE		7	OTAL	17, CURRENT	FUNDING PERIO	DD
PREVIOUSLY OBLIG	GATED:	;	\$10,4	50,000.00	\$	\$.00	\$10,45	0,000	0.00		N/A THROUGH	
OBLIGATED BY THIS	S ACTION:			\$.00	Ş	\$.00		5	3.00		N/A	
TOTAL OBLIGATED	ON AWAR	:D: 5	310,4	50,000.00	\$	5.00	\$10,45	0,000	0.00	18. PERIOD C	F PERFORMANC	
FUTURE FUNDING:				\$.00	\$	\$.00			3.00		29-SEP-199 THROUGH 31-DEC-200	
GRANT TOTAL:		:	\$10,4	50,000.00	\$	\$.00	\$10,45	0,000	0.00		31 DBC 200	, 0
19. ACCOUNTING A	ND APPRO	PRIATIO	N DATA						J.			
20a. PRINCIPAL INV TECHNICAL REPRE			IENT				REPRESENTA hn C. Zo				21b. CODE: ONR 31:	2
(PI) James A	A. Coop	er			21c. ADD OFFI BALL 800 ARLI	RESS: CE OF STON NORTH NGTON	NAVAL R CENTRE T QUINCY VA 22	ESEA OWER STRE	ONE ET			
20b. TELEPHONE N (765) 49435		20c. EMA			j i	EPHON 3) 696	E NUMBER:			21e. EMAIL A		
22, AWARDING OFF	FICE CONT	ACT		22b. CODE: ONR 251	, , , , , ,	,	ATIVE OFFIC	E:		Largarysonicine	23b. CODE:	
22a. NAME: Caro 22c. ADDRESS: OFFICE OF NA BALLSTON CEN 800 NORTH QI ARLINGTON V 22d. TELEPHONE N (703) 69625	536 CHIC	S CLA AGO	'NAVAL R RK STREE IL 6060	ET RO	OM 2		N62880					
24. SUBMIT PAYME		<u> </u>	onr.navy 25	a. PAYING OFFICE:	25b. COI			26a. P	ATENT	OFFICE:	26b. CODE:	
Same as bloo	ck #23a	ı	I	DFAS CHARLESTON		58892						

AWARD NO.	AWARD/MODIF	ICATION	MODIFICATION NO. P00007	PAGE 2 of 5
N00014-95-1-1302 27. SPECIAL INSTRUCTIONS:			F00007	1 OT 2
See "Special Requirements" At	tachment			
See Special Majorania Ma				
CO. DELECATIONS. The administration of the fine	d telembers have determined at the	administrative office (b	deals 22at There request the guardian	office contact (block 72)
28. DELEGATIONS: The administration duties liste will make their full text available. Please direct ques	at a contract of the contract		.mil/02/024/offices.ht	
Della Dellacetta	псер.,			****
Full Delegation				
29. TERMS AND CONDITIONS: The following term				ere given in full text.
Upon request the awarding office contact named in DOCUMENT	URL	made, or mey can be to	ound at the specified URL.	CLAUSES
	• · · · · · · · · · · · · · · · · · · ·			
30. OPTIONS OPTION NO. AMOUNT		F	PERIOD	
(1)				
(1) (2) (3)				
(4)				
31. REPORTS: The following reports must be subm	nitted to the indicated addressees, in	the indicated quantitie	s, within 90 days following the expirati	on or termination of
the project. Final Technical Reports must have a Si Block 12a of the SF298 as follows: "Approved for P	-298, Report Documentation Page, ublic Release; distribution is Unlimit	accompanying tnem. ∪ ed".	inless otherwise stated in the award/m	domication, complete
ADDRESSEE	REPORT TYPE			COPIES

32 FOR THE RECIPIENT			STATES OF AMERICA	•
32a, SIGNATURE OF PERSON AUTHORIZED TO	SIGN	33a. SIGNATURE OF	AWARDING OFFICER	
N/A - SIGNATURE NOT REQUIRE	D ON THIS AWARD		(b) (6)	
32b. NAME AND TITLE OF SIGNER	32c. DATE SIGNED	33b. NAME AND TITL	E OF AWARD OFFICER	33c. DATE SIGNED 27-JUL-2000
	######################################	г Башретт С. №	эсэсэн тонав	127-000-2000

1. CONTRACT	NUMBER (CRITIC	CAL)	2. SPIIN (CRIT	ICAL)		3, MOD (CRITICAL) 4. PR NUMBER					BER				PAGE 3 OF 5
	95-1-130					P00	007			00PR	.03080-03	1			
	6. LINE OF ACC	COUNTING												7.	
CLIN/SLIN	Α.	B. APPROPRIATION (CRITICAL)	C. SUBHEAD	D.	E, Parm	F. RFM	G. \$A	Н.	ĭ.	J. Paa	K.	ST CODE		AMOUNT	NAVY INTERNAL USE ONLY REF DOC/ACRN
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PREPARED/AL	JTORIZED BY:			***************************************		COMPT	ROLLER	APPROVAL: CAL DATA AND S	ICASAT*	IDC					
							BY	CAL DATA AND S	HARON	/INC				for COMPTROLLER	, ONR CONTRACT REVIEWED
DATE:						DATE:									

FINANCIAL ACCOUNTING DATA SHEET - NON-NAVY DoD ACTIVITIES

1. CONTRACT NUMBER (CRITICAL) N00014-95-1-1302			2. SPIIN (CRITICAL)	3. MOD (CRITICAL) POOO07	4. PR NUMBER 00PR03080~01			PAGE 4 OF 5	
5. CLIN/SLIN	6. ACRN (CRITICAL)	7.		ACCOUNTING CITATION		8. AMOUNT (CRITICAL)		NAVY INTERNAL USE ONLY REF DOC/ACRN	
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_					PAGE TOTAL	1			
	UTUODIZED S'	-		4000	GRAND TOTAL COMPTROLLER APPROVAL:	\$.00			
PREPARED/A	UTHORIZED BY	:			FOR FISCAL DATA AND SIGNATURE BY DATE:	for COMPTROLLER,	ONR CONTRAC	CT REVIEWED	

AWARD NO. N00014-95-1-1302	SPECIAL REQUIREMENTS	MODIFICATION NO.	PAGE 5 of 5
The purpose of this PR is to 2000.	provide a no cost extension for grant NO	00149511302 through 31	Dec
			:



AWARD/

3a, ISSUED BY: OFFICE OF NAVAL RESEARCH BALLSTON CENTRE TOWER ONE 800 NORTH QUINCY STREET

MODIFICATION ARLINGTON VA 22217-5660 3b. CFDA: 1. INSTRUMENT TYPE: 12.300 Grant 2. AUTHORITY: 3c. DUNS NUMBER: 008963233 10 USC 2358, 31 USC 6304 5. MODIFICATION NO.: 6. MODIFICATION TYPE: 7. PR NO.: PAGE 4. AWARD NO.: 00PR03080-00 1 of 5 P00006 Increment N00014-95-1-1302 12. PROGRAM TYPE: 11. ACTIVITY TYPE: 8. ACTIVITY/AGENCY PROPOSAL NO.: 9. RECIPIENT PROPOSAL NO.: 10, PROPOSAL DATE: N/A Undated Research N/A N/A 14. REMITTANCE ADDRESS (IF DIFFERENT FROM BLOCK 13): 13c. EDI/EFT NUMBER: 13. ISSUED TO 13b. CAGE: 13a. ADDRESS: 4B877 4301A0 Same as block #13 PURDUE RESEARCH FOUNDATION DIVISION OF SPONSORED PROGRAMS HOVDE HALL THIRD FLOOR WEST LAFAYETTE, IN 47907 13d, BUSINESS OFFICE CONTACT: 13e, TELEPHONE NUMBER: 13f. EMAIL ADDRESS: 15. RESEARCH TITLE AND/OR DESCRIPTION OF PROJECT AND/OR PROPOSAL TITLE: Manufacturable Power Switching Devices 17. CURRENT FUNDING PERIOD TOTAL RECIPIENT SHARE 16, FUNDING ACTIVITY/AGENCY SHARE N/A THROUGH \$8,697,000.00 \$8,697,000.00 \$.00 PREVIOUSLY OBLIGATED: N/A \$1,753,000.00 \$.00 OBLIGATED BY THIS ACTION: \$1,753,000.00 \$10,450,000.00 18. PERIOD OF PERFORMANCE TOTAL OBLIGATED ON AWARD: \$10,450,000.00 \$.00 29-SEP-1995 THROUGH **FUTURE FUNDING:** \$.00 \$.00 \$.00 28-SEP-2000 GRANT TOTAL: \$.00 \$10,450,000.00 \$10,450,000.00 19. ACCOUNTING AND APPROPRIATION DATA: See attached Financial Accounting Data Sheet(s) 21b. CODE: 20a. PRINCIPAL INVESTIGATOR/RECIPIENT 21. TECHNICAL REPRESENTATIVE 21a. NAME: John C. Zolper TECHNICAL REPRESENTATIVE: ONR 312 21c ADDRESS: (PI) James A. Cooper OFFICE OF NAVAL RESEARCH BALLSTON CENTRE TOWER ONE 800 NORTH QUINCY STREET ARLINGTON VA 22217-5660 21e, EMAIL ADDRESS: 20b. TELEPHONE NUMBER: | 20c. EMAIL ADDRESS: 21d. TELEPHONE NUMBER: zolperj@onr.navy.mil cooperi@ecn.purdue.edu (703) 6961437 (765) 4943514 23b. CODE: 22b. CODE: 23a. ADMINISTRATIVE OFFICE: 22. AWARDING OFFICE CONTACT 22a. NAME: Carol A. Porter N62880 ONR 251 22c. ADDRESS: OFFICE OF NAVAL RESEARCH REGIONAL OFFICE CHICAGO OFFICE OF NAVAL RESEARCH 536 S CLARK STREET ROOM 208 BALLSTON CENTRE TOWER ONE CHICAGO IL 60605-1588 800 NORTH QUINCY STREET Fax: (312) 3532094, Email: fryet@onr.navy.mil ARLINGTON. VA 22217-5660 22d, TELEPHONE NUMBER: | 22e, EMAIL ADDRESS: porterc@onr.navy.mil (703) 6962587 26b, CODE: 26a. PATENT OFFICE: 24. SUBMIT PAYMENT REQUEST TO: 25a. PAYING OFFICE: 25b. CODE: N68892 Same as block #23a DFAS CHARLESTON, SC

AWARD NO.	AWARD/MODIFICATION	MODIFICATION NO.	PAGE 2 of 5
N00014-95-1-1302 27. SPECIAL INSTRUCTIONS:		1 200006	12 01 3
	h		
See "Special Requirements" At	tachment		
28. DELEGATIONS: The administration duties liste	d below have been delegated to the administrative office	(block 23a). Upon request the awa	ding office contact (block 22)
will make their full text available. Please direct ques	http://www.onr.nav	y.mil/02/024/offices	.htm
Full Delegation			
			i
29. TERMS AND CONDITIONS: The following term	ns and conditions are incorporated herein by reference wi a block 22 will make their full text available, or they can be	th the same force and effect as if the found at the specified URL.	
DOCUMENT TO THE STATE OF THE ST	URL		CLAUSES
		4	ĺ
30, OPTIONS OPTION NO. AMOUNT		PERIOD	
(1) (2) (3)			
(2)			
(4)			
31 DEBORTS: The following reports must be sub-	mitted to the indicated addressees, in the indicated quant	ties, within 90 days following the ex	piration or termination of
the project. Final Technical Reports must have a S Block 12a of the SF298 as follows: "Approved for	F298. Report Documentation Page, accompanying them	. Unless otherwise stated in the aw	ard/modification, complete
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AWARD NO.	SPECIAL REQUIREMENTS	MODIFICATION NO.	PAGE 5 of 5
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Office of Naval Research, Chicago Region 536 South Clark Street Room 208

Chicago, IL 60605-1588

Phone: (312) 886-5423 Fax: (312) 353-2094

ACO Code: N62880

AWARD MODIFICATION

Award Number: N00014-95-1-1302

Modification Number: A00002

Title: MANUFACTURABLE POWER SWITCHING DEVICES

Award Recipient: PURDUE RESEARCH FOUNDATION HOVDE HALL THIRD FLOOR

WEST LAFAYETTE IN 47907

Authority: 10 U.S.C. 2358, as amended; 31 U.S.C. 6304

This award modification eliminates the requirement for prior approvals for foreign travel.

All other conditions and terms remain unchanged.

For the Office of Nava! Research:

/SIGNED/

David J. Wyner
Administrative Contracting Officer

Effective Date: 10/1/98

Office of Naval Research

ONR 251:Elizabeth L. Ford (703) 696-2576

Ballston Centre Tower One 800 North Quincy Street Arlington, VA 22217-5660 GRANT NO:

MOD NUMBER:

P00005

PR NUMBER:

99PR03240-00

P.O. CODE: DISBURSING CODE:

312 N68892 N62880

AGO CODE: CAGE CODE:

4B877

PI:

James A. Cooper

N00014-95-1-1302

CFDA No: 12.300

RESEARCH GRANT

GRANTEE:

DFAS OLC EDI/EFT VENDOR NUMBER 4301AO

PURDUE RESEARCH FOUNDATION DIVISION OF SPONSORED PROGRAMS

HOVDE HALL THIRD FLOOR WEST LAFAYETTE, IN 47907 EDI/EFT

APPROPRIATION: See attached Financial Accounting Data Sheet(s).

TOTAL AMOUNT OF GRANT: \$10,450,000.00

AUTHORITY: 10 U.S.C. 2358 as amended, and 31 U.S.C. 6304.

GRANT SCHEDULE

GRANT PURPOSE: The purpose of this modification is to provide an increment of funding under Grant N00014-95-1-1302.

Effective as of the date of this modification:

The funds available under this Grant are increased by the amounts shown on the attached Financial Accounting Data Sheet(s).

The paragraph entitled "INCREMENTALLY FUNDED GRANTS" is revised as follows:

"INCREMENTALLY FUNDED GRANTS: This Grant is incrementally funded. The total amount of this Grant is \$10,450,000.00. The amount currently available for payment is \$8,697,000.00. The Government's obligation for the difference of \$1,753,000.00, is contingent upon the availability of funds. Accordingly, no legal liability on the part of the Government for payment of this difference shall exist unless and until funds are made available to the Grantee by an amendment to the Grant."

All other terms and conditions of this Grant remain unchanged.

UNITED S	STATES OF AME	ERICA	Λ	
Office of N BY	Research (6)	(Elizabeth Ford
DATE	Grants Officer	000		***************************************
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GRANT NUMBER: N00014-95-1-1302/P00005

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Office of Naval Research

ONR 251:Elizabeth L. Ford (703) 696-2576

Ballston Centre Tower One 800 North Quincy Street Arlington, VA 22217-5660 GRANT NO:

N00014-95-1-1302

MOD NUMBER: P00004

PR NUMBER: 98PR02984-01

P.O. CODE: DISBURSING CODE:

312 N68892 N62880

AGO CODE: CAGE CODE:

4B877

PI:

James A. Cooper

CFDA No: 12.300

RESEARCH GRANT

GRANTEE:

DFAS OLC EDI/EFT VENDOR NUMBER 4301AO

PURDUE RESEARCH FOUNDATION DIVISION OF SPONSORED PROGRAMS

HOVDE HALL THIRD FLOOR WEST LAFAYETTE, IN 47907 **EDI/EFT**

APPROPRIATION: See attached Financial Accounting Data Sheet(s).

TOTAL AMOUNT OF GRANT: \$10,450,000.00

AUTHORITY: 10 USC 2358 as amended, and 31 USC 6304

GRANT SCHEDULE

GRANT PURPOSE: The purpose of this modification is to exercise an option and provide an increment of funding under Grant N00014-95-1-1302.

Effective as of the date of this modification:

The funds available under this Grant are increased by the amount set forth on the attached Financial Accounting Data Sheet(s).

The total amount of this Grant is revised to read \$10,450,000.00

The period of this grant is revised to read: 29 SEP 95 to 28 SEP 00.

The paragraph entitled "INCREMENTALLY FUNDED GRANTS" is revised or reinstated as follows:

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All other terms and conditions of this grant remain unchanged.

UNITED STATES OF AMERICA

Office of Naval Research

BY



DATE

1-8-98

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Office of Naval Research

ONR 245: Dildree Ivery (312) 886-5423

Ballston Centre Tower One 800 North Quincy Street Arlington, VA 22217-5660 GRANT NO:

MOD NUMBER:

PR NUMBER:

P.O. CODE: DISBURSING CODE:

AGO CODE: CAGE CODE:

PI:

N00014-95-1-1302

P00003

98PR02984-00

312 N68892 N62880

4B877

James A. Cooper

CFDA No: 12.300

RESEARCH GRANT

GRANTEE:

DFAS OLC EDI/EFT VENDOR NUMBER 4301AO

PURDUE RESEARCH FOUNDATION DIVISION OF SPONSORED PROGRAMS

HOVDE HALL THIRD FLOOR WEST LAFAYETTE, IN 47907 EDI/EFT

APPROPRIATION: See attached Financial Accounting Data Sheet(s).

TOTAL AMOUNT OF GRANT: \$6,270,000.00

AUTHORITY: 10 U.S.C. 2358 as amended, and 31 U.S.C. 6304.

GRANT SCHEDULE

GRANT PURPOSE: The purpose of this modification is to provide the final increment of funding under Grant N00014-95-1-1302.

Effective as of the date of this modification:

The funds available under this Grant are increased by the amounts shown on the attached *Financial Accounting Data Sheet(s)*.

Paragraph entitled "INCREMENTALLY FUNDED GRANTS" is deleted in its entirety.

All other terms and conditions of this Grant remain unchanged.

UNITED STATES OF AMERICA

Office of Naval Résearch

BY

(b) (6)

Grants Officer

05 JAN 98

DATE

Helen Paul Grants Officer

GRANT NUMBER: N00014-95-1-1302/P00003

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Office of Naval Research

ONR 245:Francisca C. Ramos (312) 886-5423

Ballston Centre Tower One 800 North Quincy Street Arlington, VA 22217-5660

GRANT NO:

MOD NUMBER:

P00002

97PR03362-00

PR NUMBER: P.O. CODE:

DISBURSING CODE:

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AGO CODE: CAGE CODE: N62880 4B877

PI:

James A. Cooper

N00014-95-1-1302

CFDA No: 12.300

DOMESTIC RESEARCH GRANT

GRANTEE:

NRFCWASH EDI/EFT VENDOR NUMBER 4301AO

PURDUE RESEARCH FOUNDATION DIVISION OF SPONSORED PROGRAMS

HOVDE HALL THIRD FLOOR WEST LAFAYETTE, IN 47907

EDI/EFT

APPROPRIATION: See attached Financial Accounting Data Sheet(s).

TOTAL AMOUNT OF GRANT: \$6,270,000.00

AUTHORITY: 10 U.S.C. 2358 as amended, and 31 U.S.C. 6304.

GRANT SCHEDULE

GRANT PURPOSE: The purpose of this modification is to provide an increment of funding under Grant N00014-95-1-1302.

Effective as of the date of this modification:

The funds available under this Grant are increased by the amounts shown on the attached Financial Accounting Data Sheet(s).

The paragraph entitled "INCREMENTALLY FUNDED GRANTS" is revised as follows:

"INCREMENTALLY FUNDED GRANTS: This Grant is incrementally funded. The total amount of this Grant is \$6,270,000.00. The amount currently available for payment is \$4,535,833.00, which amount covers the period 29 SEP 95 through 31 OCT 97. The Government's obligation for the difference of \$1,734,667.00, is contingent upon the availability of funds. Accordingly, no legal liability on the part of the Government for payment of this difference shall exist unless and until funds are made available to the Grantee by an amendment to the Grant."

If a payment schedule was previously included in this grant, it is hereby deleted in its entirety. If there is a desire to continue advanced payments and a payment schedule, the grantee must contact the Administrative Grants Officer to negotiate such provisions into this grant under OMB Circular A-110. Where the payment schedule was already deleted under a previous modification or where the grantee has already negotiated a payment schedule with the Administrative Grants Officer, this paragraph does not apply.

All other terms and conditions of this Grant remain unchanged.

UNITED STATES OF AMERICA

Office of NavaCResearch

BY

Grants Officer

DATE

DEC = 6 1996

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Office of Naval Research

ONR 252: Julia M. Gallmon (703) 696-2609

Ballston Centre Tower One 800 North Quincy Street

Arlington, VA 22217-5660

CFDA No: 12.300

GRANT NO:

MOD NUMBER:

PR NUMBER:

P.O. CODE: DISBURSING CODE:

AGO CODE: CAGE CODE:

PI:

N00014-95-1-1302

P00001

96PR05125-00

312

N00179 N62880 4B877

James A. Cooper

DOMESTIC RESEARCH GRANT

GRANTEE:

PURDUE RESEARCH FOUNDATION

DIVISION OF SPONSORED PROGRAMS

HOVDE HALL THIRD FLOOR WEST LAFAYETTE, IN 47907

APPROPRIATION: See attached Financial Accounting Data Sheet(s).

TOTAL AMOUNT OF GRANT: \$6,270,000.00

AUTHORITY: 10 U.S.C. 2358 as amended, and 31 U.S.C. 6304.

GRANT SCHEDULE

GRANT PURPOSE: The purpose of this modification is to provide an increment of funding under Grant N00014-95-1-1302.

Effective as of the date of this modification:

The funds available under this Grant are increased by the amounts shown on the attached Financial Accounting Data Sheet(s).

The paragraph entitled "INCREMENTALLY FUNDED GRANTS" is revised as follows:

"INCREMENTALLY FUNDED GRANTS: This Grant is incrementally funded. The total amount of this Grant is \$6,270,000.00. The amount currently available for payment is \$3,142,000.00, which amount covers the period 29 SEP 95 through 31 OCT 96. The Government's obligation for the difference of \$3,128,000.00, is contingent upon the availability of funds. Accordingly, no legal liability on the part of the Government for payment of this difference shall exist unless and until funds are made available to the Grantee by an amendment to the Grant."

If a payment schedule was previously included in this grant, it is hereby deleted in its entirety. If there is a desire to continue advanced payments and a payment schedule, the grantee must contact the Administrative Grants Officer to negotiate such provisions into this grant under OMB Circular A-110. Where the payment schedule was already deleted under a previous modification or where the grantee has already negotiated a payment schedule with the Administrative Grants Officer, this paragraph does not apply.

All other terms and conditions of this Grant remain unchanged.

UNITED STATES OF AMERICA

Office of Naval Research

(b) (6

LAMBERT C. McCULLOUGH Grants Officer

Frants Officer

DATE

GRANT NUMBER: N00014-95-1-1302

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OFFICE OF NAVAL RESEARCH
ONR 251:C. COLEMAN (703)696-4516
BALLSTON TOWER ONE
800 NORTH QUINCY STREET
ARLINGTON VA 22217-5660
CFDA NO.: 12.300

GRANT NO:00014-95-1-1302 R&T PROJECT: 1213017---01

ONR PM/PO: 312

DISBURSING CODE: N00179

AGO CODE: N62880 CAGE CODE: 4B877

P.I.: James A. Cooper

RESEARCH GRANT

GRANTEE:

PURDUE RESEARCH FOUNDATION DIVISION OF SPONSORED PROGRAMS HOVDE HALL THIRD FLOOR WEST LAFAYETTE, IN 47907

APPROPRIATION:

AA 9750400.WBBB 025 RA359 0 068342 2D 61103D R1103 0009120 \$1,400,000.00 FRC: urij

R&T Project Code: 1213017---01, Dated: 26 JUL 1995

CONTRACT REVIEWED FOR FISCAL DATA AND SHANATURE BY (b) (6) 9/2/9

TOTAL AMOUNT OF GRANT: \$6,270,000.00 for COMPTROLLER, ONR

AUTHORITY: 10 U.S.C. 2358 as amended, and 31 U.S.C. 6304.

GRANT SCHEDULE

- 1. GRANT PURPOSE: The purpose of this Grant is to support research in accordance with Grantee's proposal dated 08 MAR 1995, revised 10 JUL 1995, entitled "Manufacturable Power Switching Devices," which is incorporated herein by reference.
- 2. PERIOD: The Grant is for the period 29 SEP 1995 through 28 SEP 1998.
- 3. TERMS AND CONDITIONS: This Grant is subject to the Office of Naval Research General Terms and Conditions for Educational Institutions, Non-profit Organizations, and State and Local Government dated July 1995 which are incorporated herein by reference and listed by title in Exhibit A and to any special terms and conditions contained in this Grant schedule.
- 4. PRINCIPAL INVESTIGATOR: The Principal Investigator, Professor James
- A. Cooper, shall be continuously responsible for the research project.

- .5. PROGRAM MANAGER/OFFI : The Program Manager/Of er representing the United States Government is Alvin M. Goodman, ONR 312, OFFICE OF NAVAL RESEARCH, BALLSTON TOWER ONE, 800 NORTH QUINCY STREET, ARLINGTON, VIRGINIA 22217-5660. (703) 696-4218
- 6. ADMINISTRATIVE GRANTS OFFICER: The Administrative Grants Officer for this Grant is:

OFFICE OF NAVAL RESEARCH REGIONAL OFFICE CHICAGO 536 S CLARK STREET ROOM 208 CHICAGO IL 60605-1588

7. PAYMENTS: Upon acceptance of the terms and conditions of this grant, the Grantee may submit requests for reimbursement using an original Standard Form 270 (SF 270), plus two copies, to the Administrative Grants Officer (AGO). Requests for payment may not exceed the amount obligated to this grant.

If advance payments are desired, the grantee may submit SF-270 in accordance with OMB Circular A-110. Section 11 of the SF-270 must be completed in its entirety. At the discretion of the AGO, a payment schedule may be required of the grantee.

- 8. REPORTS AND REPORT DISTRIBUTION: Reports shall be furnished as specified in Attachment Number 1 entitled, "Reports and Report Distribution," of this Grant. The Grantee shall include a complete "Report Documentation Page" (SF 298) as the last page of each copy of every scientific and technical report prepared under this Grant. The form contains instructions for preparation. The cognizant Grant Administrator will provide assistance to the Grantee in obtaining the required form. Administrative type reports, managerial (status) reports, and reprints submitted as technical reports are excluded from this requirement.
- 9. INCREMENTALLY FUNDED GRANTS: This Grant is incrementally funded. The total amount of this Grant is \$6,270,000.00. The amount currently available for payment is \$1,400,000.00, which amount covers the period 29 SEP 1995 through 30 APR 1996. The Government's obligation for the difference of \$4,870,000.00, is contingent upon the availability of funds. Accordingly, no legal liability on the part of the Government for payment of this difference shall exist unless and until funds are made available to the Grantee by an amendment to the Grant.
- 10. The following clause is incorporated in full text and is applicable to grants and cooperative agreements with institutions of higher learning.

DoDGARS 23.1 MILITARY RECRUITING ON CAMPUS (Interim Rule, 60 FR 4544-45, 24 January 1995.)

As a condition for receipt of funds available to the Department of Defense (DoD) under this award, the recipient agrees that it is not an institution that has a policy of denying, and that it is not an institution that effectively prevents, the Secretary of Defense from obtaining for military recruiting purposes: (A) entry to campuses or access to students on campuses; or (B) access to directory information pertaining to students. If the recipient is determined, using procedures

established by the Secrety of Defense to implement ction 558 of Public Law 103-337 (1994), to be such an institution during the period of performance of this agreement, and therefore to be in breach of this clause, the Government will cease all payments of DoD funds under this agreement and all other DoD grants and cooperative agreements, and it may suspend or terminate such grants and agreements unilaterally for material failure to comply with the terms and conditions of award. (End of clause)

- 11. GRANTEE ACQUISITION OF GOODS OR SERVICES:
 In accordance with Section 621 of Public Law 103-123, no amount of
 funding provided by this Grant may be used by the Grantee to finance the
 acquisition of goods or services (including contruction services)
 unless, in any solicitation issued by the Grantee to procure such goods
 and/or services with a value of at least \$500,000, the Grantee: (1)
 announces the amount of federal funds that will be used to finance
 the aquisition for which offers are being solicited; and (2) also
 expresses the amount of federal funding as a percentage of the total
 cost of the planned acquisition.
- 12. OPTION TO RENEW: The Government may require the continuation of the research as detailed in the Grant Purpose section herein for the period 29 SEP 1998 through 28 SEP 2000 under Option 1. The Grants Officer may exercise the option and/or options by written notice to the Grantee. This notice shall be given no later than sixty (60) days prior to completion of the performance period of the Grant. The total negotiated amounts of Option 1 is \$4,180,000.00.

13. UNEXPENDED FUNDS AND EARNED INTEREST:

- a. At the end of the grant period, any unexpended balances of funds provided by the grant shall be remitted to the address given in the above paragraph titled "Addministrative Grants Officer," by check made payable to the "Office of Naval Research."
- b. Any interest earned by grant funds on deposit shall be remitted annually to the Department of Health and Human Services, Payment Management System, P. O. Box 6021, Rockville, MD 20852 U.S.A., by check payable to "Department of Health and Human Services."

UNITED STATES OF AMERICA
OFFICE OF NAVIL PESTAPCH
LAMBERT C. McCULLOUGH
by
Date

5/2/255

GRANT NO: N00014-95-1-1302

ATTACHMENT NUMBER 1

REPORTS AND REPORT DISTRIBUTION

REPORT TYPES

- (a) Performance (Technical) Report(s) (Include letter report(s))
 Frequency: As Requested
- (b) Final Technical Report, issued at completion of Grant.
- (c) Final Financial Status Report (SF 269)
- (d) Final Patent Report (DD882)

REPORTS DISTRIBUTION

ADDRESSEES	REPORT TYPES	NUMBER OF COPIES
PROGRAM MANAGER/OFFICER ONR: 312 ALVIN M. GOODMAN OFFICE OF NAVAL RESEARCH BALLSTON TOWER ONE 800 NORTH QUINCY STREET ARLINGTON, VIRGINIA 22217-5660	(a) & (b)	3
ADMINISTRATIVE GRANTS OFFICER OFFICE OF NAVAL RESEARCH REGIONAL OFFICE CHICAGO 536 S CLARK STREET ROOM 208 CHICAGO IL 60605-1588	(a), (b), (c) & (d)	1
DIRECTOR, NAVAL RESEARCH LABORATORY ATTN: Code 2627 WASHINGTON, DC 20375	(a) & (b)	1
DEFENSE TECHNICAL INFORMATION CENTER BUILDING 5, CAMERON STATION ALEXANDRIA, VIRGINIA 22304-6145	R (a) & (b)	2
OFFICE OF NAVAL RESERACH BALLSTON TOWER ONE ATTN ONR OOCC1 MR WILLIAM F MCCART 800 NORTH QUINCY STREET ARLINGTON, VIRGINIA 22217-5660	(d)	

If the Program Manager/Officer directs, the Grantee shall make additional distribution of technical reports in accordance with a supplemental distribution list provided by the Program Manager/Officer. The supplemental distribution list shall not exceed 250 addresses.

Grant Number: N00014-95-1-1302

EXHIBIT A

The following terms and conditions are incorporated herein by reference with the same force and effect as if they were given in full text. Upon request, the Administrative Grants Officer named herein will make their full text available.

OFFICE OF NAVAL RESEARCH

GRANT GENERAL TERMS AND CONDITIONS FOR EDUCATIONAL INSTITUTIONS, NONPROFIT ORGANIZATIONS, AND STATE AND LOCAL GOVERNMENT

ARTICLE

- 1. Federal Requirements
- 2. Order of Precedence
- 3. Administration and Cost Principles
- 4. Research Responsibilities
- 5. Amendment of Grant
- 6. University Grantees
- 7. Principal Investigator
- 8. Publications
- 9. Acknowledgment of Sponsorship
- 10. Grantee-Acquired Property
- 11. Patent Rights
- 12. Rights in Technical Data and Computer Software
- 13. Human Subjects
- 14. Animal Welfare
- 15. Research Involving Recombinant DNA Molecules
- 16. Foreign Travel Approval
- 17. Activities Abroad
- 18. Nondiscrimination
- 19. Clean Air and Water
- 20. U.S. Flag Air Carriers
- 21. Security
- 22. Subawards and Contracts/Subcontracts
- 23. New Restrictions on Lobbying